

Mineral Industry Surveys

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SILICON IN JANUARY 2003

In January 2003, domestic production of silicon ferroalloys plus metal, excluding silvery pig iron, was estimated to have increased by nearly 5% compared with the corresponding figure for the previous month, according to the U.S. Geological Survey. Domestic shipments were at the same level as those of December 2002. Producer stocks increased slightly from those of December 2002. All domestic data for ferrosilicon have been combined to avoid disclosing company proprietary data.

The December 2002 trade data included in this report indicated that the amount of silicon metal imports decreased by 49% compared with those of November 2002. Ferrosilicon imports, on a gross weight basis, increased by 2% from those of November 2002, with significant increases in the trade categories of "magnesium ferrosilicon," and "other ferrosilicon." On a gross weight basis, ferrosilicon exports decreased by 31% when compared to those in November 2002, owing primarily to a significant decrease in the trade category "more than 55% silicon." Silicon metal exports decreased by 4% from those in the previous month with a significant decrease in the trade category of "more than 99.99% silicon."

Update

On March 7, 2003, the U.S. International Trade Commission (ITC) made a final determination that the U.S. silicon industry was injured by imports of silicon metal from the Russian Federation for the July 1, 2001, to December 1, 2001, period of investigation. The ITC transmitted its determination to the Secretary of the U.S. Department of Commerce on March 19 (ITC, 2003). On March 13, the U.S. Department of Commerce's International Trade Administration (ITA) amended the antidumping margins to correct ministerial errors it made in setting the final margins in February 2003 by increasing the margins for ZAO Kremny, SUAL-Kremny-Ural Ltd. from 54.77% to 56.11%; and Brask Aluminum Smelter from 77.51% to 79.42% (ITA, 2003b). The ITA issued an antidumping duty order on these imports on March 26 (ITA, 2003a). The order also documented an increase in the final Russia-wide antidumping margin from 77.51% to 79.42%.

On March 7, 2003, the ITA rescinded its new shipper and administrative reviews for imports of silicon metal from the People's Republic of China (PRC) by the China Shanxi Province Lin Fen Prefecture Foreign Trade Import and Export Corp. after the company withdrew its requests (ITA, 2003d). The new shipper period of review covered silicon metal imported from June 1, 2001, through January 14, 2002; the administrative review covered silicon metal imports during the period June 1, 2001, through May 31, 2002. As a result, imports from the company are subject to the PRC-wide antidumping margin rate of 139.49%.

On March 10, 2003, the ITA announced the preliminary results of its administrative review of silicon metal imports from the PRC for Groupstars Chemical Co., Ltd. covering the period June 1, 2001, through May 31, 2002 (ITA, 2003e). Imports from the company are subject to the PRC-wide antidumping margin rate of 139.49%.

On March 11, the ITA extended the deadline for completing the preliminary results of its administrative review of the antidumping duty order on silicon metal imports from Brazil covering the period July 1, 2001, through June 30, 2002 (ITA, 2003c). The deadline was changed from April 2, 2003, to July 22, 2003.

References Cited

- International Trade Administration, 2003a, Antidumping duty order—Silicon metal from Russia: Federal Register, v. 68, no. 58, March 26, p. 14578-14579.
- International Trade Administration, 2003b, Notice of amended final determination of sales at less than fair value—Silicon metal from the Russian Federation: Federal Register, v. 68, no. 49, March 13, p. 12037-12039.
- International Trade Administration, 2003c, Silicon metal from Brazil—Extension of time limit for preliminary results of antidumping duty administrative review: Federal Register, v. 68, no. 47, March 11, p. 11519-11520.
- International Trade Administration, 2003d, Silicon metal from the People's Republic of China—Notice of rescission of new shipper review and administrative review for China Shanxi Province Lin Fen Prefecture Foreign Trade Import and Export Corp.: Federal Register, v. 68, no. 45, March 7, p. 11057-11058.
- International Trade Administration, 2003e, Silicon metal from the People's Republic of China—Notice of rescission of preliminary results of antidumping duty administrative review: Federal Register, v. 68, no. 46, March 10, p. 11369-11371.
- U.S. International Trade Commission, 2003, Silicon metal from Russia: Federal Register, v. 68, no. 56, March 24, p. 14260.

Prices, cents per pound, silicon content

	<u>50% Ferrosilicon¹</u>	<u>75% Ferrosilicon²</u>	<u>Silicon metal²</u>
January 2	47.0-50.0	38.00-40.00	58.5-60.0
January 9	47.0-50.0	38.00-40.00	58.5-60.0
January 16	47.0-50.0	38.00-40.25	58.5-60.0
January 23	47.0-50.0	40.00-41.00	60.0-61.0
January 30	47.0-50.0	41.00-43.00	60.5-61.5

¹Source: Ryan's Notes, North American transaction price.

²Source: Platts Metals Week, dealer import price

TABLE 1
U.S. PRODUCTION, SHIPMENTS, AND PRODUCER STOCKS OF SILICON ALLOYS AND METAL IN 2003 1/ 2/ 3/

(Metric tons)

Material	Gross production 4/		Net shipments		Stocks, January 31
	January	Year to date 5/	January	Year to date 5/	
Ferrosilicon:					
All grades 6/ 7/	21,300	21,300	15,000	15,000	34,400
Silicon metal:					
Excludes semiconductor grades	10,200	10,200	9,730	9,730	3,660

1/ Data are rounded to no more than three significant digits.

2/ Includes U.S. Geological Survey estimates.

3/ Data for silvery pig iron (less than 25% silicon) withheld to avoid disclosing company proprietary data.

4/ Includes in-plant consumption, as in production of magnesium ferrosilicon and other miscellaneous alloys.

5/ Includes revisions to previous months' data.

6/ Ferrosilicon categories were aggregated to avoid disclosing company proprietary data.

7/ Includes miscellaneous silicon alloys.

TABLE 2
U.S. EXPORTS OF FERROSILICON AND SILICON METAL IN DECEMBER 2002 1/ 2/

(Metric tons, unless otherwise specified)

Country	Gross weight	Contained weight	Value	Year to date		
				Gross weight	Contained weight	Value
Ferrosilicon:						
More than 55% silicon:						
Canada	176	106	\$159,000	4,820	2,890	\$3,280,000
Malaysia	--	--	--	33	25	54,700
Mexico	55	33	74,400	662	411	648,000
Trinidad and Tobago	--	--	--	11	6	8,590
Total	231	139	233,000	5,530	3,340	3,990,000
Other ferrosilicon:						
Australia	--	--	--	527	166	570,000
Brazil	--	--	--	43	22	36,200
Canada	177	89	144,000	3,810	1,910	2,370,000
China	--	--	--	48	24	13,100
Italy	--	--	--	81	43	131,000
Japan	--	--	--	336	30	717,000
Korea, Republic of	72	36	89,600	1,370	687	1,730,000
Malaysia	19	4	19,500	261	67	307,000
Mexico	64	32	62,900	525	264	608,000
Venezuela	--	--	--	29	15	26,800
Other (8 countries)	4	2	3,240	116	57	152,000
Total	336	162	320,000	7,150	3,280	6,660,000
Total ferrosilicon	567	301	553,000	12,700	6,620	10,600,000
More than 99.99% silicon:						
China	53	NA	1,180,000	561	NA	16,200,000
France	7	NA	166,000	75	NA	2,080,000
Germany	18	NA	615,000	356	NA	15,900,000
Italy	4	NA	383,000	85	NA	7,860,000
Japan	283	NA	18,200,000	3,360	NA	168,000,000
Korea, Republic of	51	NA	1,720,000	482	NA	19,000,000
Norway	15	NA	421,000	388	NA	10,000,000
Taiwan	4	NA	291,000	131	NA	5,740,000
Ukraine	14	NA	359,000	120	NA	3,030,000
United Kingdom	5	NA	761,000	85	NA	13,900,000
Other (42 countries)	21	NA	1,760,000	276	NA	26,900,000
Total	474	474 e/	25,800,000	5,920	5,920 e/	289,000,000

See footnotes at end of table.

TABLE 2--Continued
U.S. EXPORTS OF FERROSILICON AND SILICON METAL IN DECEMBER 2002 1/ 2/

(Metric tons, unless otherwise specified)

Country	Gross weight	Contained weight	Value	Year to date		
				Gross weight	Contained weight	Value
Ferrosilicon--Continued:						
99.00% - 99.99% silicon:						
Belgium	3	3	\$4,340	26	26	\$36,300
Brazil	--	--	--	40	39	55,900
Denmark	--	--	--	164	162	268,000
Japan	--	--	--	286	284	814,000
Korea, Republic of	--	--	--	20	20	28,600
Mexico	60	59	98,700	269	267	449,000
Nauru	--	--	--	51	51	72,000
Netherlands Antilles	15	15	30,600	103	102	168,000
Norway	--	--	--	275	272	387,000
Singapore	--	--	--	21	20	39,400
Other (14 countries)	17	17	40,200	127	126	226,000
Total	95	94	174,000	1,380	1,370	2,540,000
Other silicon:						
Canada	630	612	656,000	2,170	2,100	2,490,000
Germany	--	--	--	329	319	437,000
Israel	--	--	--	638	619	841,000
Japan	118	115	156,000	1,110	1,080	1,610,000
Korea, Republic of	73	71	96,600	524	509	840,000
Malaysia	--	--	--	253	246	479,000
Mexico	26	25	41,500	833	808	1,460,000
Philippines	--	--	--	428	416	1,190,000
Taiwan	--	--	--	493	478	1,150,000
United Kingdom	141	137	186,000	334	324	707,000
Other (23 countries)	32	31	299,000	834	809	2,890,000
Total	1,020	991	1,440,000	7,940	7,710	14,100,000
Total silicon metal	1,590	1,560	27,400,000	15,200	15,000	305,000,000

e/ Estimated. NA Not available. -- Zero.

1/ Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

2/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN DECEMBER 2002 1/ 2/

(Metric tons, unless otherwise specified)

Country	Gross weight	Contained weight	Value	Year to date		
				Gross weight	Contained weight	Value
Ferrosilicon:						
55%-80% silicon, over 3% Ca:						
Argentina	--	--	--	158	96	\$207,000
Brazil	61	46	\$36,600	1,270	793 3/	1,020,000
Canada	--	--	--	202	134	65,800
China	--	--	--	161	145	79,900
France	54	36	73,400	142	93	193,000
Germany	--	--	--	40	12	40,500
Mexico	6	3 3/	13,300	6	3	13,300
Norway	--	--	--	6	4	10,500
United Kingdom	--	--	--	11	7	58,100
Total	121	84	123,000	1,990	1,290	1,680,000

See footnotes at end of table.

TABLE 3--Continued
U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN DECEMBER 2002 1/ 2/

(Metric tons, unless otherwise specified)

Country	Gross weight	Contained weight	Value	Year to date		
				Gross weight	Contained weight	Value
Ferrosilicon--Continued:						
55%-80% silicon, Other:						
Brazil	81	61	\$51,000	3,590	2,690	\$2,110,000
Canada	402	307	320,000	8,940	6,840	5,740,000
China	4,630	3,520	2,330,000	7,070	5,360	3,530,000
France	213	141	402,000	3,480	2,300	6,450,000
Iceland	3,950	2,970	2,010,000	19,200	14,400	8,950,000
Kazakhstan	--	--	--	33,800	25,800	14,000,000
Norway	6,950	5,230	4,020,000	10,700	8,000	8,920,000
South Africa	--	--	--	6,550	4,750	3,020,000
Ukraine	--	--	--	21,500	16,000	9,070,000
Venezuela	--	--	--	49,100	36,900	26,900,000
Other (5 countries)	17	13	88,100	768	408	2,000,000
Total	16,200	12,200	9,230,000	165,000	123,000	90,600,000
More than 90% silicon:						
China	--	--	--	44	2,380 3/	220,000
Magnesium ferrosilicon:						
Argentina	500	228	371,000	1,730	769	1,210,000
Brazil	219	98	145,000	3,730	1,690	2,420,000
Canada	178	85	163,000	1,840	882	1,180,000
China	20	9	23,500	3,410	1,720	2,580,000
France	--	--	--	20	9	22,200
Germany	--	--	--	5	2	12,000
Japan	47	22	54,800	243	108	429,000
Korea, Republic of	--	--	--	3,640	786	2,340,000
Norway	979	455	771,000	10,700	4,930	8,630,000
Ukraine	--	--	--	37	18	14,900
Other (Slovenia)	--	--	--	4	1	6,480
Total	1,940	897	1,530,000	25,300	10,900	18,800,000
Other ferrosilicon:						
Brazil	155	72	109,000	228	117	199,000
Canada	477	139	324,000	10,500	3,590	7,410,000
China	--	--	--	40	20	66,100
France	--	--	--	30	13	56,300
Italy	--	--	--	94	41	28,600
Norway	--	--	--	23	4	18,100
Russia	1,020	458	290,000	2,560 3/	472 3/	717,000
Ukraine	--	--	--	1,020	471	327,000
United Kingdom	--	--	--	2	1	2,690
Total	1,650	669	723,000	14,500	4,730	8,830,000
Total ferrosilicon	20,000	13,900	11,600,000	207,000	143,000	120,000,000

See footnotes at end of table.

TABLE 3--Continued
U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN DECEMBER 2002 1/ 2/

(Metric tons, unless otherwise specified)

Country	Gross weight	Contained weight	Value	Year to date		
				Gross weight	Contained weight	Value
Metal:						
More than 99.99% silicon:						
Belgium	--	NA	--	4	NA	\$15,700
China	5	NA	\$117,000	24	NA	537,000
Cyprus	--	NA	--	54	NA	80,000
Germany	33	NA	3,830,000	369	NA	44,500,000
Finland	--	NA	--	12	NA	54,900
Italy	25	NA	977,000	306	NA	12,500,000
Japan	29	NA	1,260,000	463	NA	14,700,000
Korea, Republic of	21	NA	255,000	138	NA	1,780,000
Poland	--	NA	--	7	NA	30,900
Spain	2	NA	11,200	16	NA	65,600
Other (11 countries)	2	NA	279,000	16	NA	1,640,000
Total	117	117 e/	6,730,000	1,410	1,410 e/	75,900,000
99.00% - 99.99% silicon:						
Argentina	580	576	551,000	6,920	6,690	6,590,000
Australia	100	99	123,000	568	564	619,000
Brazil	2,260	2,240	2,920,000	38,300	38,000	49,300,000
Canada	2,610	2,530 3/	3,150,000	15,400	16,000 3/	18,600,000
Germany	--	--	--	1,860	1,850	3,370,000
Norway	480	477	878,000	3,860	3,830	5,980,000
Russia	--	--	--	13,200	13,100	14,500,000
South Africa	263	260	228,000	19,900	19,800	22,800,000
Spain	--	--	--	1,480	1,470	1,420,000
Saudi Arabia	--	--	--	757	751	671,000
Other (10 countries)	40	40	27,900	1,730 3/	1,690 3/	1,770,000
Total	6,340	6,220	7,880,000	104,000	104,000	125,000,000
Other silicon:						
Canada	--	--	--	1,880	1,840	2,230,000
China	312	307	273,000	4,590	4,420	3,570,000
Germany	--	--	--	220	216	188,000
Korea, Republic of	160	157	118,000	780	766	610,000
Norway	--	--	--	3,280	3,220	2,970,000
Russia	--	--	--	16,800	16,500	13,700,000
Saudi Arabia	195	190	122,000	338	330	243,000
South Africa	--	--	--	11,000	10,600	10,100,000
United Arab Emirates	60	59	50,200	1,070	1,050	891,000
Vietnam	--	--	--	200	198	153,000
Other (10 countries)	351	319	323,000	887	714	893,000
Total	1,080	1,030	887,000	41,000	39,900	35,500,000
Total silicon metal	7,530	7,370	15,500,000	146,000	145,000	237,000,000

e/ Estimated. NA Not available. -- Zero.

1/ Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

2/ Data are rounded to no more than three significant digits; may not add to totals shown.

3/ All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.